

Title (en)

DATA AND CONTROL MULTIPLEXING IN WIRELESS COMMUNICATIONS

Title (de)

DATEN UND KONTROLLE MULTIPLEXING IN DRAHTLOSER KOMMUNIKATION

Title (fr)

MULTIPLEXAGE DE DONNÉES ET DE COMMANDE DANS DES COMMUNICATIONS SANS FIL

Publication

EP 2428083 B1 20170614 (EN)

Application

EP 10717016 A 20100504

Priority

- US 2010033619 W 20100504
- US 17538809 P 20090504
- US 76473610 A 20100421

Abstract (en)

[origin: WO2010129605A1] Systems and methodologies are described that facilitate defining a new control region over resources allocated for communicating general non-control data in a legacy network specification. The new control region can comprise multiple control channels, which can be multiplexed together and/or with general data channels. Devices can receive control data over the new control region as well as information regarding the region, such as location of the region, location of specific resources, multiplexing schemes, frequency hopping patterns, and/or the like to appropriately decode relevant control data. This allows for expanded control resources to support multicarrier assignments, large numbers of devices being addressed, special operation modes, new downlink control information (DCI) formats, and/or the like.

IPC 8 full level

H04B 1/713 (2011.01); **H04W 72/04** (2009.01)

CPC (source: EP KR US)

H04B 1/713 (2013.01 - EP US); **H04L 1/0038** (2013.01 - KR); **H04L 5/0012** (2013.01 - KR); **H04W 28/26** (2013.01 - KR); **H04W 48/08** (2013.01 - KR); **H04W 72/23** (2023.01 - EP KR US)

Citation (examination)

WO 2008057843 A2 20080515 - QUALCOMM INC [US], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

WO 2010129605 A1 20101111; CN 102415185 A 20120411; CN 102415185 B 20141224; EP 2428083 A1 20120314; EP 2428083 B1 20170614; JP 2012526464 A 20121025; JP 5485378 B2 20140507; KR 101357709 B1 20140206; KR 20120005047 A 20120113; TW 201132193 A 20110916; TW I405488 B 20130811; US 2011110296 A1 20110512; US 9622228 B2 20170411

DOCDB simple family (application)

US 2010033619 W 20100504; CN 201080019448 A 20100504; EP 10717016 A 20100504; JP 2012509920 A 20100504; KR 20117029067 A 20100504; TW 99114283 A 20100504; US 76473610 A 20100421